

ABSTRACT

A SYSTEM AND METHOD FOR IDENTIFYING TLB ENTRIES ASSOCIATED WITH A PHYSICAL ADDRESS OF A SPECIFIED RANGE

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A system and method for identifying a TLB entry having a physical address that is within a specified range are disclosed. The method includes obtaining a tentative TLB entry from a page table entry and accessing a physical address associated with the tentative TLB entry. The method further includes
10 comparing the physical address of the tentative TLB entry with a predetermined range of addresses. If the physical address is within the finite range of addresses, an exception is invoked. In response to the exception, the physical address and/or an attribute of the tentative TLB entry can be modified. The tentative TLB entry can then be stored in a TLB.